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Railroad Conference, 1998. Proceedings of the 1998 ASME/IEEE Joint , 1998

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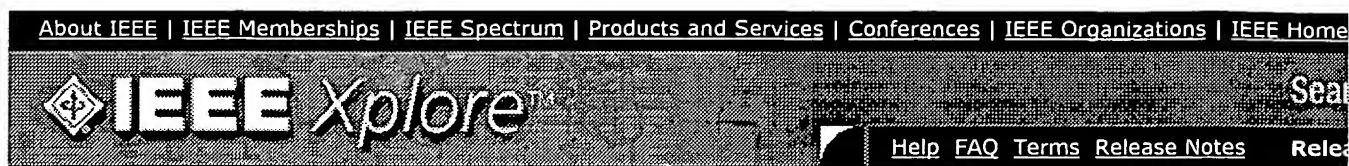
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Ahmadian, M.; Wei Huang

Railroad Conference, 2000. Proceedings of the 2000 ASME/IEEE Joint , 2000

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[\[Abstract\]](#) [\[PDF Full-Text \(792 KB\)\]](#) **CNF**

2 An experimental evaluation of the effect of rail vehicles truck suspe wheel-rail forces

Ahmadian, M.; White, D.L.

Railroad Conference, 1999. Proceedings of the 1999 ASME/IEEE Joint , 1999

Page(s): 144 -150

[\[Abstract\]](#) [\[PDF Full-Text \(500 KB\)\]](#) **CNF**

3 Wheel/rail adhesion wear investigation using a quarter scale labora testing facility

Kumar, S.; Alzoubi, M.F.; Allsayed, N.A.

Railroad Conference, 1996., Proceedings of the 1996 ASME/IEEE Joint , 1996

Page(s): 247 -254

[\[Abstract\]](#) [\[PDF Full-Text \(496 KB\)\]](#) **CNF**

4 Sound and vibration of railroad wheel

Sakamoto, H.; Hirakawa, K.; Toya, Y.

Railroad Conference, 1996., Proceedings of the 1996 ASME/IEEE Joint , 1996

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[\[Abstract\]](#) [\[PDF Full-Text \(412 KB\)\]](#) **CNF**

5 Communications-based signaling: advanced capability for mainline*Pollack, M.W.*

IEEE Aerospace and Electronics Systems Magazine , Volume: 11 Issue: 11 , N

Page(s): 13 -18

[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) [JNL](#)

6 A streetcar named light rail*Mora, J.*

IEEE Spectrum , Volume: 28 Issue: 2 , Feb. 1991

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1 Effect of self-steering locomotive trucks in improving adhesion on c tracks

Ahmadian, M.; Wei Huang

Railroad Conference, 2000. Proceedings of the 2000 ASME/IEEE Joint , 2000

Page(s): 47 -61

[\[Abstract\]](#) [\[PDF Full-Text \(792 KB\)\]](#) **CNF**

2 Influence of periodic irregularities on wheel climb derailment safety freight car running on a transition curve

Chen Guangxiong; Jin Xincan; Bao Weiqian

Railroad Conference, 2000. Proceedings of the 2000 ASME/IEEE Joint , 2000

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Ahmadian, M.; White, D.L.

Railroad Conference, 1999. Proceedings of the 1999 ASME/IEEE Joint , 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(500 KB\)\]](#) **CNF**

4 Filtering effects of mid-cord offset measurements on track geometr

Ahmadian, M.

Railroad Conference, 1999. Proceedings of the 1999 ASME/IEEE Joint , 1999

Page(s): 157 -161

[\[Abstract\]](#) [\[PDF Full-Text \(272 KB\)\]](#) **CNF**

5 Derailment potential of articulated wagons due to track twist*Richmond, S.*

Railroad Conference, 1998. Proceedings of the 1998 ASME/IEEE Joint , 1998

Page(s): 1 -7

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) **CNF**

6 Wheel forces during flange climb. I. Track loading vehicle tests*Shust, W.C.; Elkins, J.A.*

Railroad Conference, 1997., Proceedings of the 1997 IEEE/ASME Joint , 1997

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7 Communications-based signaling: advanced capability for mainline*Pollack, M.W.*

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[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) **JNL**

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Railroad Conference, 1996., Proceedings of the 1996 ASME/IEEE Joint , 1996

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9 Sound and vibration of railroad wheel*Sakamoto, H.; Hirakawa, K.; Toya, Y.*

Railroad Conference, 1996., Proceedings of the 1996 ASME/IEEE Joint , 1996

Page(s): 75 -81

[\[Abstract\]](#) [\[PDF Full-Text \(412 KB\)\]](#) **CNF**

10 Engineering tests performed on the X2000 and ICE high speed trai*Lombardi, E.J.*

Railroad Conference, 1994., Proceedings of the 1994 ASME/IEEE Joint (in Con with Area 1994 Annual Technical Conference) , 1994

Page(s): 13 -21

[\[Abstract\]](#) [\[PDF Full-Text \(724 KB\)\]](#) **CNF**

11 Effect of wheel and rail profiles on gage widening behavior

Mace, S.E.; DiBrito, D.A.; Blank, R.W.; Keegan, L.S.; Allran, M.G.

Railroad Conference, 1994., Proceedings of the 1994 ASME/IEEE Joint (in Con with Area 1994 Annual Technical Conference) , 1994

Page(s): 51 -56

[\[Abstract\]](#) [\[PDF Full-Text \(460 KB\)\]](#) **CNF**

12 Recent advancements in buff and draft testing techniques

El-Sibaie, M.

Railroad Conference, 1993., Proceedings of the 1993 IEEE/ASME Joint , 1993

Page(s): 115 -119

[\[Abstract\]](#) [\[PDF Full-Text \(416 KB\)\]](#) **CNF**

13 A streetcar named light rail

Mora, J.

IEEE Spectrum , Volume: 28 Issue: 2 , Feb. 1991

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L1 6486 S RAILROAD AND TRACK
L2 2353 S L1 AND CURV?
L3 100 S L2 AND SPIRAL
L4 1 S L3 AND CLOTHOID
L5 47 S L3 AND CURVATURE
L6 27 S L5 AND TRANSITION

=> S L1 AND TRANSITION? SPIRAL?

L7 2 L1 AND TRANSITION? SPIRAL?

=> D L7 1-2 IBIB ABS

L7 ANSWER 1 OF 2 USPATFULL

ACCESSION NUMBER: 89:70919 USPATFULL
TITLE: Multi-axle, steered articulated railway vehicle with
compensation for **transitional spirals**
INVENTOR(S): Smith, Roy E., Kingston, Canada
PATENT ASSIGNEE(S): UTDC Inc., Kingston, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4860666		19890829
APPLICATION INFO.:	US 1988-157565		19880219 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kashnikow, Andres		
LEGAL REPRESENTATIVE:	Rogers, Bereskin & Parr		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	435		

AB An articulated vehicle has two body portions which are pivotally connected and supported on a frame. First and second wheelsets are pivotally mounted to and support the frame. The third and fourth wheelsets are provided for supporting the other ends of the first and second body portions, remote from the frame. A steering arrangement comprising a detecting device and a guiding device are provided, which can be in the form of a mechanical linkage. The first detecting device detects changes in the angle between the frame and the first body portion, while a second detecting device detects changes in the angle between the frame and the second body portion. Corresponding first and second guide devices respond to the detected angles; the first guide device guides the first and third wheelsets to radial alignment, while the second guide device guides the second and fourth wheelsets to a radial alignment.

L7 ANSWER 2 OF 2 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 329440 EUROPATFULL EW 1989 FS OS STA B
 TITLE: Multi-axle, steered articulated railway vehicle with
 compensation for transitional spirals
 Mehrachsiges Gliederschienenfahrzeug mit
 Achseinstellungskompensation in den
 Bahnuebergangsabschnitten zwischen Kurven.
 Vehicule ferroviaire articule a essieux multiples avec
 compensation d'orientation des essieux dans les
 sections
 de voie de transition entre les courbes.
 INVENTOR(S): Smith, Roy E., 823 Overlea Court, Kingston Ontario K7M
 628, CA
 PATENT ASSIGNEE(S): U T D C INC., Station A Box 70, Kingston Ontario K7M
 628, CA
 PATENT ASSIGNEE NO: 949361
 AGENT: Johnson, Terence Leslie et al, Edward Evans & Co.
 Chancery House 53-64 Chancery Lane, London WC2A 1SD, GB
 AGENT NUMBER: 42961
 OTHER SOURCE: ESP1989035 EP 0329440 A2 890823
 SOURCE: Wila-EPZ-1989-H34-T3
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
 DESIGNATED STATES: R DE; R ES; R FR; R GB; R IT; R SE
 PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG
 PATENT INFORMATION:

PATENT NO	KIND	DATE
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EP 329440	A2	19890823
		19890823
APPLICATION INFO.:	EP 1989-301488	19890216
PRIORITY APPLN. INFO.:	US 1988-157565	19880219

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L1 6486 S RAILROAD AND TRACK
L2 2353 S L1 AND CURV?
L3 100 S L2 AND SPIRAL
L4 1 S L3 AND CLOTHOID
L5 47 S L3 AND CURVATURE
L6 27 S L5 AND TRANSITION
L7 2 S L1 AND TRANSITION? SPIRAL?
L8 897 S RAILROAD TRACK AND DESIGN
L9 44 S L8 AND SPIRAL?
L10 0 S L9 AND COMPASS
L11 25 S L9 AND CURVATURE?
L12 19 S L11 AND TRANSITION?

=> D L12 1-19 IBIB ABS

L12 ANSWER 1 OF 19 USPATFULL

ACCESSION NUMBER: 1998:142849 USPATFULL
TITLE: People mover system
INVENTOR(S): Kunczynski, Jan K., 1862 Jan Dr., Glenbrook, NV,
United States 89413

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5836423		19981117
APPLICATION INFO.:	US 1996-742653		19961104 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Noland, Kenneth		
LEGAL REPRESENTATIVE:	Flehr Hohbach Test Albritton & Herbert LLP		
NUMBER OF CLAIMS:	100		
EXEMPLARY CLAIM:	27		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1590		

AB A people mover system (110) comprising an elevated track (112) having a horizontal section (114) and vertical end sections (116, 118) and a passenger car (124) movably carried on track (112). Horizontal track section (114) is elevated above an intersection or roadway (140) a height sufficient to permit vehicular traffic to pass beneath car (124).

A drive mechanism is provided extending along track (124) for propelling the passenger car in both vertical and horizontal directions between a first load/unload point (120) and a second load/unload point (122).

L12 ANSWER 2 OF 19 USPATFULL

ACCESSION NUMBER: 1998:94055 USPATFULL
TITLE: Full range of motion roller coaster
INVENTOR(S): Mares, John F., Albuquerque, NM, United States
Gorman, Robert H., Albuquerque, NM, United States

PATENT ASSIGNEE(S): Meteoro Amusement Corporation, Albuquerque, NM, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5791254		19980811
APPLICATION INFO.:	US 1996-742465		19961101 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-7206	19951103 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Le, Mark Tuan	
LEGAL REPRESENTATIVE:	Peacock, Deborah A., Myers, Jeffrey D.	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 15 Drawing Page(s)	
LINE COUNT:	744	

AB A roller coaster or amusement park ride. The roller coaster comprises a track system capable of any directional travel, including horizontal, vertical, angled, curved, curvilinear, and retrograde directions. A carriage in which passengers reside is rotatable about the track system,

either by programming or by passenger activation, providing for additional freedom of movement. The roller coaster may have a track through a clear tube (e.g., surrounded by water) and multiple, independent rides supported by the same support structure, providing increased excitement for the passengers.

L12 ANSWER 3 OF 19 USPATFULL

ACCESSION NUMBER: 93:76964 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Bonta, Gerald A., Carlisle, MA, United States
Ogar, George W., Wakefield, MA, United States
Peregrim, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5245347		19930914
APPLICATION INFO.:	US 1980-234043		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3697		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating

signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such as processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 4 OF 19 USPATFULL

ACCESSION NUMBER: 93:55152 USPATFULL

TITLE: All weather tactical strike system (AWTSS) and method of operation

INVENTOR(S): Okurowski, Frank A., 140 Paul Revere Rd., Concord, MA, United States 01742
Mangiapane, Rosario, 4 Briarwood La., Burlington, MA, United States 01803
Peregrim, Theodore J., 301 Springs Rd., Bedford, MA, United States 01730
Crain, Arthur, 23 Ledgebrook Rd., Framingham, MA, United States 01701

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5225839		19930706
APPLICATION INFO.:	US 1980-234034		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome of a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such as processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 5 OF 19 USPATFULL

ACCESSION NUMBER: 93:55151 USPATFULL

TITLE: All weather tactical strike system (AWTSS) and method of operation

INVENTOR(S): Kanter, Irving, Lexington, MA, United States
Null, Donald C., Acton, MA, United States
Ogar, George W., Wakefield, MA, United States
Peregrim, Theodore J., Bedford, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5225838		19930706
APPLICATION INFO.:	US 1980-234039		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3672		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 6 OF 19 USPATFULL

ACCESSION NUMBER: 93:52917 USPATFULL
 TITLE: All weather tactical strike system (AWTSS) and method of operation
 INVENTOR(S): Okurowski, Frank A., Concord, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5223842		19930629
APPLICATION INFO.:	US 1980-234048		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3672		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to

provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 7 OF 19 USPATFULL

ACCESSION NUMBER: 93:10785 USPATFULL
TITLE: All weather tactical strike system (AWISS) and method of operation
INVENTOR(S): Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5185608		19930209
APPLICATION INFO.:	US 1980-234035		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3702		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome and a "axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 8 OF 19 USPATFULL

ACCESSION NUMBER: 93:9147 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5184137		19930202
APPLICATION INFO.:	US 1980-234037		19801229 (6)
DOCUMENT TYPE:	Utility		

FILE SEGMENT: Granted
PRIMARY EXAMINER: Tubbesing, T. H.
LEGAL REPRESENTATIVE: Mofford, Donald F., Sharkansky, Richard M.
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 3672

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 9 OF 19 USPATFULL

ACCESSION NUMBER: 92:107213 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States
Crain, Arthur, Framingham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5175554		19921229
APPLICATION INFO.:	US 1980-234040		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3686		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such

processor being adapted to operate in the presence of clutter or
jamming
signals.

L12 ANSWER 10 OF 19 USPATFULL

ACCESSION NUMBER: 92:105194 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method
of operation
INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States
Peregrim, Theodore J., Bedford, MA, United States
Crain, Arthur, Framingham, MA, United States
Kettering, Gordon L., Bedford, MA, United States
Chang, Ken W., Arlington, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173707		19921222
APPLICATION INFO.:	US 1980-234032		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3695		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar
(SAR) for generating radar maps with various degrees of resolution
required for navigation of an aircraft and detection of ground targets
in the presence of electronic countermeasures and clutter. The SAR
consists, in effect, of four frequency-agile radars sharing quadrants
of
a single array antenna mounted within a radome on a "four axis" gimbal
with a sidelobe cancelling subarray mounted at the phase center of each
quadrant. Motion sensors are also mounted on the single array antenna
to
provide signals for compensating for vibration and stored compensating
signals are used to compensate for radome-induced errors. In addition,
a
signal processor is shown which is selectively operable to generate
radar maps of any one of a number of desired degrees of resolution,
such
processor being adapted to operate in the presence of clutter or
jamming
signals.

L12 ANSWER 11 OF 19 USPATFULL

ACCESSION NUMBER: 92:105190 USPATFULL
TITLE: All weather strike system (AWTSS) and method of
operation
INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States
Ogar, George W., Wakefield, MA, United States
Long, Albert H., Framingham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173703		19921222
APPLICATION INFO.:	US 1980-234045		19801229 (6)
DOCUMENT TYPE:	Utility		

FILE SEGMENT: Granted
PRIMARY EXAMINER: Tobbesing, T. H.
LEGAL REPRESENTATIVE: Mofford, Donald F., Sharkansky, Richard M.
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 3683

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants

of
a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 12 OF 19 USPATFULL

ACCESSION NUMBER: 92:105189 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Young, Benjamin L., Westford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173702		19921222
APPLICATION INFO.:	US 1980-234046		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tobbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees or resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants

of
a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna

to
provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition,

a
single processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution,

such
processor being adapted to operate in the presence of clutter or
jamming
signals.

L12 ANSWER 13 OF 19 SPATFULL
 ACCESSION NUMBER: 92:103435 USPATFULL
 TITLE: All weather tactical strike system (AWISS) and method of operation
 INVENTOR(S): Peregrin, Theodore J., Bedford, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 Crain, Arthur, Framingham, MA, United States
 Bonta, Gerald A., Carlisle, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172125		19921215
APPLICATION INFO.:	US 1980-234042		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3684		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for randome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 14 OF 19 SPATFULL
 ACCESSION NUMBER: 92:103432 USPATFULL
 TITLE: All weather tactical strike system (AWISS) and method of operation
 INVENTOR(S): Peregrin, Theodore J., Bedford, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 Crain, Arthur, Framingham, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172122		19921215
APPLICATION INFO.:	US 1980-234049		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		

NUMBER OF DRAWINGS: 29 Drawing Figure(s); 23 Drawing Page(s)

LINE COUNT: 3671

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 15 OF 19 USPATFULL

ACCESSION NUMBER: 92:103430 USPATFULL

TITLE: All weather tactical strike system (AWISS) and method of operation

INVENTOR(S): Slawsby, Nathan, Canton, MA, United States
Peregrim, Theodore J., Bedford, MA, United States
Watson, Jr., Richard B., Acton, MA, United States
Sheldon, Edward J., Lexington, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172120		19921215
APPLICATION INFO.:	US 1980-234044		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome of a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 16 OF 19 PATFULL
 ACCESSION NUMBER: 92:103429 USPATFULL
 TITLE: All weather tactical strike system (AWTSS) and method of operation
 INVENTOR(S): Young, Benjamin L., Westford, MA, United States
 Crain, Arthur, Framingham, MA, United States
 Bonta, Gerald A., Carlisle, MA, United States
 Okurowski, Frank A., Concord, MA, United States
 Kettering, Gordon L., Bedford, MA, United States
 Peregrim, Theodore J., Bedford, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172119		19921215
APPLICATION INFO.:	US 1980-234038		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3685		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 17 OF 19 USPATFULL
 ACCESSION NUMBER: 92:103428 USPATFULL
 TITLE: All weather tactical strike system (AWISS) and method of operation
 INVENTOR(S): Peregrim, Theodore J., Bedford, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 Ogar, George W., Wakefield, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172118		19921215
APPLICATION INFO.:	US 1980-234047		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		

PRIMARY EXAMINER: Tubbesing, T. H.
LEGAL REPRESENTATIVE: Mofford, Donald F., Sharkansky, Richard M.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 3675

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L12 ANSWER 18 OF 19 USPATFULL

ACCESSION NUMBER: 92:93688 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Flumerfelt, Leonard R., Needham, MA, United States
Burrier, Richard W., Chelmsford, MA, United States
Warner, Gerald L., Sudbury, MA, United States
Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5163176		19921110
APPLICATION INFO.:	US 1980-234033		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3689		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such

processor being adapted to operate in the presence of clutter or
jamming signals.

L12 ANSWER 19 OF 19 USPATFULL

ACCESSION NUMBER: 73:52454 USPATFULL

TITLE: **TRANSITION** PATH FOR FILLING MACHINE

INVENTOR(S): Creed, Sherman H., San Jose, CA, United States

Huber, John R., Los Gatos, CA, United States

Hendriks, Johan, San Jose, CA, United States

PATENT ASSIGNEE(S): FMC Corporation, San Jose, CA, United States (U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3771574		19731113
APPLICATION INFO.:	US 1971-208598		19711216 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bell, Jr., Houston S.		
LEGAL REPRESENTATIVE:	F. W. Anderson et al.		
NUMBER OF CLAIMS:	14		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	828		

AB This invention relates to filling of open top containers, such as cans, on rotary fillers and more specifically to what will be termed an improved **transition** path between the rotary path of the filler and a straight line discharge path for the filled containers. Both a constant **curvature** decrease **spiral** and a parabolic type curve are disclosed.

=> D HIS

(FILE 'HOME' ENTERED AT 13:56:11 ON 09 OCT 2001)

FILE 'USPATFULL, INSPEC, EUROPATFULL' ENTERED AT 13:56:26 ON 09 OCT 2001

L1 6486 S RAILROAD AND TRACK
L2 2353 S L1 AND CURV?
L3 100 S L2 AND SPIRAL
L4 1 S L3 AND CLOTHOID

=> D L4 IBIB ABS

L4 ANSWER 1 OF 1 USPATFULL

ACCESSION NUMBER: 87:64487 USPATFULL

TITLE: **Track** system for a passenger-accommodating vehicle as part of a rollercoaster

INVENTOR(S): Potzsch, Georg, Westendstrasse 121, D-8000, Munchen 2, Germany, Federal Republic of

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4693183		19870915
APPLICATION INFO.:	US 1985-808123		19851212 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1984-3446951	19841221
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Reese, Randolph A.	
LEGAL REPRESENTATIVE:	Armstrong, Nikaido, Marmelstein & Kubovcik	
NUMBER OF CLAIMS:	14	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	313	

AB A **track** system for a passenger-accommodating vehicle as a part of a rollercoaster comprising **tracks** which form an acceleration stretch, a rollover stretch consisting of several sections in which the vehicle is rotated around its lateral axis, two helical stretches in which the vehicle is rotated around its longitudinal axis, and a coasting stretch. The individual sections of the rollover stretches and the two helical stretches are arranged such that the form of the digit "Eight" results in a vertical projection of the **track** system.

=> D HIS

(FILE 'HOME' ENTERED AT 13:56:11 ON 09 OCT 2001)

FILE 'USPATFULL, INSPEC, EUROPATFULL' ENTERED AT 13:56:26 ON 09 OCT 2001

L1 6486 S RAILROAD AND TRACK
L2 2353 S L1 AND CURV?
L3 100 S L2 AND SPIRAL
L4 1 S L3 AND CLOTHOID
L5 47 S L3 AND CURVATURE
L6 27 S L5 AND TRANSITION

=> D L6 1-27 IBIB ABS

L6 ANSWER 1 OF 27 USPATFULL

ACCESSION NUMBER: 2001:137703 USPATFULL
TITLE: Adaptive signal conditioning device for train tilting
control systems
INVENTOR(S): Gaudreau, Daniel, St-Bruno-de-Montarville, Canada
Le-Ngoc, Tho, Ville d'Anjou, Canada
PATENT ASSIGNEE(S): Bombardier Inc., Montreal, Canada (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6278914	B1	20010821
APPLICATION INFO.:	US 1999-383968		19990826 (9)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Cuchlinski, Jr., William A.		
ASSISTANT EXAMINER:	Donnelly, Arthur D.		
LEGAL REPRESENTATIVE:	Pillsbury Winthrop LLP		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	17 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	587		

AB The described device uses the signal from an inertial force sensor as input and produces a filtered output with minimal delay. The filtering level is determined by the device, according to a function of the input signal observation and a pre-defined desired signal criteria. The output signal produced by the device is suitable to be used as a control signal for the operation of a tilting railway vehicle. One or more of such device can be used concurrently to obtain filtered signals from various inertial sensors.

L6 ANSWER 2 OF 27 USPATFULL

ACCESSION NUMBER: 2001:6822 USPATFULL
TITLE: Modular station platform construction kit
INVENTOR(S): Edelmann, Horst, Burbach, Germany, Federal Republic of
PATENT ASSIGNEE(S): Hering GmbH & Co. KG, Burbach, Germany, Federal
Republic of (non-U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 6173653 B1 20010116
 WO 9815691 199804
 APPLICATION INFO.: US 1998-91206 199806 (9)
 WO 1997-EP5571 19971009
 19980610 PCT 371 date
 19980610 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1996-19641800	19961010
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Morano, S. Joseph	
ASSISTANT EXAMINER:	McCarry, Jr., Robert J.	
LEGAL REPRESENTATIVE:	Kueffner, Friedrich	
NUMBER OF CLAIMS:	28	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 16 Drawing Page(s)	
LINE COUNT:	1247	

AB Prefabricated kit for producing a station platform which is variable in its dimensions, in which platform slabs (1) are laid on foundations (4) with interposition of spacer elements (3). The spacer elements (3) can be replaced without damaging the other construction elements (1, 3, 4). The platform slabs (1) may be arranged in various horizontal positions above the foundations (4) in order to compensate for horizontal differences in size in relation to the axis of the **track**.

L6 ANSWER 3 OF 27 USPATFULL

ACCESSION NUMBER: 1998:142849 USPATFULL
 TITLE: People mover system
 INVENTOR(S): Kunczynski, Jan K., 1862 Jan Dr., Glenbrook, NV,
 United States 89413

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5836423		19981117
APPLICATION INFO.:	US 1996-742653		19961104 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Noland, Kenneth		
LEGAL REPRESENTATIVE:	Flehr Hohbach Test Albritton & Herbert LLP		
NUMBER OF CLAIMS:	100		
EXEMPLARY CLAIM:	27		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 17 Drawing Page(s)		
LINE COUNT:	1590		

AB A people mover system (110) comprising an elevated **track** (112) having a horizontal section (114) and vertical end sections (116, 118) and a passenger car (124) movably carried on **track** (112). Horizontal **track** section (114) is elevated above an intersection or roadway (140) a height sufficient to permit vehicular traffic to pass beneath car (124). A drive mechanism is provided extending along **track** (124) for propelling the passenger car in both vertical and horizontal directions between a first load/unload point (120) and a second load/unload point (122).

L6 ANSWER 4 OF 27 USPATFULL

ACCESSION NUMBER: 1998:84821 USPATFULL
 TITLE: Rail tie plate clips and shoulders
 INVENTOR(S): Igwemezie, Jude O., 1020 Denison Street, Suite 207,
 Markham, Ontario, Canada L3R 3W5

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5782406 199807
APPLICATION INFO.: US 1995-566327 199512 (8)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-139736, filed
on 22 Oct 1993, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1993-11395	19930602
	GB 1995-700	19950113
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Le, Mark T.	
LEGAL REPRESENTATIVE:	Ridout & Maybee	
NUMBER OF CLAIMS:	44	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	54 Drawing Figure(s); 39 Drawing Page(s)	
LINE COUNT:	1050	

AB A steel tie for incorporation in rail track has a horizontal rectangular plate for connection transversely of the rail to restrain vertical rail movement. The longer sides of the horizontal plate terminate in downwardly and outwardly inclined margin portions for capturing ballast. A web member extends vertically on the underside of the plate member and parallel to and centrally of the longer sides of the plate and serves to restrain longitudinal rail movement. Curved ballast engaging plate members are connected on the underside of the tie to provide lateral stability. The plate members are detachable and replaceable with smaller or larger members to provide a smaller or greater ballast engaging area. The lower edge of the vertical web has a thickened portion to carry stresses. Rail fastening devices consist of a pair of opposing longitudinally extending shoulders adapted to accommodate the rail flange between them. Each shoulder has a downwardly facing abutment surface, and a resilient rail clip has an intermediate portion that bears upwardly on the abutment surface, an end portion that extends inwardly from the abutment surface and bears resiliently on the upper side of the rail flange.

L6 ANSWER 5 OF 27 USPATFULL

ACCESSION NUMBER: 93:76964 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Bonta, Gerald A., Carlisle, MA, United States
Ogar, George W., Wakefield, MA, United States
Peregrim, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5245347		19930914
APPLICATION INFO.:	US 1980-234043		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3697		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 6 OF 27 USPATFULL

ACCESSION NUMBER: 93:55152 USPATFULL

TITLE: All weather tactical strike system (AWTSS) and method of operation

INVENTOR(S): Okurowski, Frank A., 140 Paul Revere Rd., Concord, MA, United States 01742

Mangiapane, Rosario, 4 Briarwood La., Burlington, MA, United States 01803

Peregrin, Theodore J., 301 Springs Rd., Bedford, MA, United States 01730

Crain, Arthur, 23 Ledgewood Rd., Framingham, MA,

United

States 01701

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5225839		19930706
APPLICATION INFO.:	US 1980-234034		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome of a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 7 OF 27 PATFULL
 ACCESSION NUMBER: 93:55151 USPATFULL
 TITLE: All weather tactical strike system (AWTSS) and method of operation
 INVENTOR(S): Kanter, Irving, Lexington, MA, United States
 Null, Donald C., Acton, MA, United States
 Ogar, George W., Wakefield, MA, United States
 Peregrim, Theodore J., Bedford, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5225838		19930706
APPLICATION INFO.:	US 1980-234039		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3672		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 8 OF 27 USPATFULL
 ACCESSION NUMBER: 93:52917 USPATFULL
 TITLE: All weather tactical strike system (AWTSS) and method of operation
 INVENTOR(S): Okurowski, Frank A., Concord, MA, United States
 Mangiapane, Rosario, Burlington, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5223842		19930629
APPLICATION INFO.:	US 1980-234048		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		

LINE COUNT: 3672

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 9 OF 27 USPATFULL

ACCESSION NUMBER: 93:10785 USPATFULL

TITLE: All weather tactical strike system (AWISS) and method of operation

INVENTOR(S): Pozgay, Jerome H., Needham, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5185608		19930209
APPLICATION INFO.:	US 1980-234035		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3702		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 10 OF 27 USPATFULL

ACCESSION NUMBER: 93:9147 USPATFULL

TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5184137		19930202
APPLICATION INFO.:	US 1980-234037		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3672		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 11 OF 27 USPATFULL

ACCESSION NUMBER: 92:107213 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States
Crain, Arthur, Framingham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5175554		19921229
APPLICATION INFO.:	US 1980-234040		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3686		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of

a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 12 OF 27 USPATFULL

ACCESSION NUMBER: 92:105194 USPATFULL
 TITLE: All weather tactical strike system (AWTSS) and method of operation
 INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States
 Peregrim, Theodore J., Bedford, MA, United States
 Crain, Arthur, Framingham, MA, United States
 Kettering, Gordon L., Bedford, MA, United States
 Chang, Ken W., Arlington, MA, United States
 PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173707		19921222
APPLICATION INFO.:	US 1980-234032		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3695		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 13 OF 27 USPATFULL

ACCESSION NUMBER: 92:105190 USPATFULL
 TITLE: All weather strike system (AWTSS) and method of operation
 INVENTOR(S): Mangiapane, Rosario, Burlington, MA, United States

Patent Assignee(s): Ogar, George W., Wakefield, MA, United States
Long, Albert H., Framingham, MA, United States
Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173703		19921222
APPLICATION INFO.:	US 1980-234045		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tobbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3683		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of

a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 14 OF 27 USPATFULL
ACCESSION NUMBER: 92:105189 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Young, Benjamin L., Westford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5173702		19921222
APPLICATION INFO.:	US 1980-234046		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tobbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees or resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of

a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to

provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a single processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 15 OF 27 USPATFULL

ACCESSION NUMBER: 92:103435 USPATFULL

TITLE: All weather tactical strike system (AWISS) and method of operation

INVENTOR(S): Peregrin, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
Crain, Arthur, Framingham, MA, United States
Bonta, Gerald A., Carlisle, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172125		19921215
APPLICATION INFO.:	US 1980-234042		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3684		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 16 OF 27 USPATFULL

ACCESSION NUMBER: 92:103432 USPATFULL

TITLE: All weather tactical strike system (AWISS) and method of operation

INVENTOR(S): Peregrin, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
Crain, Arthur, Framingham, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

NUMBER	KIND	DATE
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PATENT INFORMATION: US 5172122 1992122
APPLICATION INFO.: US 1980-234049 1980122 (6)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Tubbesing, T. H.
LEGAL REPRESENTATIVE: Mofford, Donald F., Sharkansky, Richard M.
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 3671

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 .ANSWER 17 OF 27 USPATFULL
ACCESSION NUMBER: 92:103430 USPATFULL
TITLE: All weather tactical strike system (AWISS) and method of operation
INVENTOR(S): Slawsby, Nathan, Canton, MA, United States
Peregrim, Theodore J., Bedford, MA, United States
Watson, Jr., Richard B., Acton, MA, United States
Sheldon, Edward J., Lexington, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172120		19921215
APPLICATION INFO.:	US 1980-234044		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	1		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		
AB	An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic countermeasures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome of a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to		

provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 18 OF 27 USPATFULL

ACCESSION NUMBER: 92:103429 USPATFULL

TITLE: All weather tactical strike system (AWTSS) and method of operation

INVENTOR(S): Young, Benjamin L., Westford, MA, United States
Crain, Arthur, Framingham, MA, United States
Bonta, Gerald A., Carlisle, MA, United States
Okurowski, Frank A., Concord, MA, United States
Kettering, Gordon L., Bedford, MA, United States
Peregrin, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172119		19921215
APPLICATION INFO.:	US 1980-234038		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3685		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 19 OF 27 USPATFULL

ACCESSION NUMBER: 92:103428 USPATFULL

TITLE: All weather tactical strike system (AWISS) and method of operation

INVENTOR(S): Peregrin, Theodore J., Bedford, MA, United States
Mangiapane, Rosario, Burlington, MA, United States
Ogar, George W., Wakefield, MA, United States

PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5172118		19921215
APPLICATION INFO.:	US 1980-234047		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3675		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 20 OF 27 USPATFULL

ACCESSION NUMBER: 92:93688 USPATFULL
TITLE: All weather tactical strike system (AWTSS) and method of operation
INVENTOR(S): Flumerfelt, Leonard R., Needham, MA, United States
Burrier, Richard W., Chelmsford, MA, United States
Warner, Gerald L., Sudbury, MA, United States
Pozgay, Jerome H., Needham, MA, United States
PATENT ASSIGNEE(S): Raytheon Company, Lexington, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5163176		19921110
APPLICATION INFO.:	US 1980-234033		19801229 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tubbesing, T. H.		
LEGAL REPRESENTATIVE:	Mofford, Donald F., Sharkansky, Richard M.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	29 Drawing Figure(s); 23 Drawing Page(s)		
LINE COUNT:	3689		

AB An AWTSS is shown to be made up of an improved synthetic aperture radar (SAR) for generating radar maps with various degrees of resolution required for navigation of an aircraft and detection of ground targets in the presence of electronic counter-measures and clutter. The SAR consists, in effect, of four frequency-agile radars sharing quadrants of

a single array antenna mounted within a radome on a "four axis" gimbal with a sidelobe cancelling subarray mounted at the phase center of each quadrant. Motion sensors are also mounted on the single array antenna to provide signals for compensating for vibration and stored compensating signals are used to compensate for radome-induced errors. In addition, a signal processor is shown which is selectively operable to generate radar maps of any one of a number of desired degrees of resolution, such processor being adapted to operate in the presence of clutter or jamming signals.

L6 ANSWER 21 OF 27 USPATFULL

ACCESSION NUMBER: 89:70919 USPATFULL
 TITLE: Multi-axle, steered articulated railway vehicle with compensation for transitional spirals
 INVENTOR(S): Smith, Roy E., Kingston, Canada
 PATENT ASSIGNEE(S): UTDC Inc., Kingston, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4860666		19890829
APPLICATION INFO.:	US 1988-157565		19880219 (7)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kashnikow, Andres		
LEGAL REPRESENTATIVE:	Rogers, Bereskin & Parr		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)		
LINE COUNT:	435		

AB An articulated vehicle has two body portions which are pivotally connected and supported on a frame. First and second wheelsets are pivotally mounted to and support the frame. The third and fourth wheelsets are provided for supporting the other ends of the first and second body portions, remote from the frame. A steering arrangement comprising a detecting device and a guiding device are provided, which can be in the form of a mechanical linkage. The first detecting device detects changes in the angle between the frame and the first body portion, while a second detecting device detects changes in the angle between the frame and the second body portion. Corresponding first and second guide devices respond to the detected angles; the first guide device guides the first and third wheelsets to radial alignment, while the second guide device guides the second and fourth wheelsets to a radial alignment.

L6 ANSWER 22 OF 27 USPATFULL

ACCESSION NUMBER: 87:64487 USPATFULL
 TITLE: Track system for a passenger-accommodating vehicle as part of a rollercoaster
 INVENTOR(S): Potzsch, Georg, Westendstrasse 121, D-8000, Munchen 2, Germany, Federal Republic of

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4693183		19870915
APPLICATION INFO.:	US 1985-808123		19851212 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1984-3446951	19841221

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Reese, Randolph A.
LEGAL REPRESENTATIVE: Armstrong, Nikaido, Marmelstein & Kubovcik
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 313

AB A **track** system for a passenger-accommodating vehicle as a part of a rollercoaster comprising **tracks** which form an acceleration stretch, a rollover stretch consisting of several sections in which the vehicle is rotated around its lateral axis, two helical stretches in which the vehicle is rotated around its longitudinal axis, and a coasting stretch. The individual sections of the rollover stretches and the two helical stretches are arranged such that the form of the digit "Eight" results in a vertical projection of the **track** system.

L6 ANSWER 23 OF 27 USPATFULL

ACCESSION NUMBER: 77:12329 USPATFULL
TITLE: Tireroller
INVENTOR(S): Groeger, Theodore Oskar, 2 Collamore Circle, West Orange, NJ, United States 07052

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4011919		19770315
APPLICATION INFO.:	US 1975-616574		19750925 (5)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1974-444007, filed on 20 Feb 1974, now abandoned which is a continuation-in-part of Ser. No. US 1973-343732, filed on 19 Apr 1973, now abandoned		

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Blix, Trygve M.
ASSISTANT EXAMINER: Basinger, Sherman D.
LEGAL REPRESENTATIVE: Groeger, Theodore O.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 795

AB A vehicle comprising: a) a conventional body with at least 3 pairs of rolls mounted on horizontal axles, which are distributed over the periphery of opposite sides of the body and connected thereto; b) a pair of annular, elastically deformable running tires, each of which encircles all of the rolls at one body's side and suspends them above the ground; c) at least one steerable or revolving wheel, ski and/or float resiliently mounted at another side of the body and d) at least one motor operatively connected to the rolls, tires and/or wheel for driving and braking them.

L6 ANSWER 24 OF 27 USPATFULL

ACCESSION NUMBER: 76:39958 USPATFULL
TITLE: Fluid **railroad** passenger car suspension
INVENTOR(S): Schultz, John C., Buffalo, NY, United States
PATENT ASSIGNEE(S): Houdaille Industries, Inc., Buffalo, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3970009		19760720
APPLICATION INFO.:	US 1973-399918		19730924 (5)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Spar, Robert J.
ASSISTANT EXAMINER: Beltran, Howard
LEGAL REPRESENTATIVE: Hill, Gross, Simpson, Van Santen, Steadman, Chiara & Simpson
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 20 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 530

AB A **railroad** passenger car suspension system in which a car body is supported on trucks in the running mode through rotary hydraulic actuators. All of the necessary conditions for passenger comfort, increased train speed and safety are met. The level of centrifugal force at **curves** is sensed and the car tilted so that the direction of force is felt by the passengers in a comfortable manner. Flush floor level of the car with station platforms, regardless of passenger load, wheel wear or platform level is attained. Lowered spring rate in the suspension system provides improved ride characteristics. Means are provided for steering the car trucks.

L6 ANSWER 25 OF 27 USPATFULL

ACCESSION NUMBER: 73:52454 USPATFULL
TITLE: **TRANSITION** PATH FOR FILLING MACHINE
INVENTOR(S): Creed, Sherman H., San Jose, CA, United States
Huber, John R., Los Gatos, CA, United States
Hendriks, Johan, San Jose, CA, United States
PATENT ASSIGNEE(S): FMC Corporation, San Jose, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3771574		19731113
APPLICATION INFO.:	US 1971-208598		19711216 (5)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Bell, Jr., Houston S.		
LEGAL REPRESENTATIVE:	F. W. Anderson et al.		
NUMBER OF CLAIMS:	14		
NUMBER OF DRAWINGS:	15 Drawing Figure(s); 11 Drawing Page(s)		
LINE COUNT:	828		

AB This invention relates to filling of open top containers, such as cans, on rotary fillers and more specifically to what will be termed an improved **transition** path between the rotary path of the filler and a straight line discharge path for the filled containers. Both a constant **curvature** decrease **spiral** and a parabolic type **curve** are disclosed.

L6 ANSWER 26 OF 27 USPATFULL

ACCESSION NUMBER: 72:18795 USPATFULL
TITLE: FLUID-HANDLING CONSTRUCTIONS, APPARATUS AND METHODS OF PRODUCTION
INVENTOR(S): Bastone, Andrew L., Granville, OH, United States
Boeker, Justin R., Newark, OH, United States
Klimpl, Fred E., West Orange, NJ, United States
PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corporation, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 3655468		19720411
APPLICATION INFO.:	US 1970-22431		19700413 (5)
RELATED APPLN. INFO.:	Division of Ser. No. US 1964-387945,		filed on 6 Aug

Nov 1968

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Goolkasian, John T.
 ASSISTANT EXAMINER: Fritsch, D. J.
 LEGAL REPRESENTATIVE: Staelin & Ooerman, Blair; L. H.
 NUMBER OF CLAIMS: 8
 NUMBER OF DRAWINGS: 30 Drawing Figure(s); 8 Drawing Page(s)
 LINE COUNT: 1089
 AB Production of large underground corrosion resistant storage tanks,
 e.g.,
 10,000 gallon capacity, from a normally mobile resin and chopped
 reinforcement Ability to "hold" the rein in place until it cures is
 provided by a stabilizing mat layer or medium.

L6 ANSWER 27 OF 27 EUROPATFULL COPYRIGHT 2001 WILA

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

ACCESSION NUMBER: 329440 EUROPATFULL EW 198934 FS OS STA B
 TITLE: Multi-axle, steered articulated railway vehicle with
 compensation for transitional **spirals**.
 Mehrachsiges Gliederschienenfahrzeug mit
 Achseinstellungskompensation in den
 Bahnuebergangsabschnitten zwischen Kurven.
 Vehicule ferroviaire articule a essieux multiples avec
 compensation d'orientation des essieux dans les
 sections
 de voie de **transition** entre les courbes.
 INVENTOR(S): Smith, Roy E., 823 Overlea Court, Kingston Ontario K7M
 6Z8, CA
 PATENT ASSIGNEE(S): U T D C INC., Station A Box 70, Kingston Ontario K7M
 6Z8, CA
 PATENT ASSIGNEE NO: 949361
 AGENT: Johnson, Terence Leslie et al, Edward Evans & Co.
 Chancery House 53-64 Chancery Lane, London WC2A 1SD, GB
 42961
 AGENT NUMBER:
 OTHER SOURCE: ESP1989035 EP 0329440 A2 890823
 SOURCE: Wila-EPZ-1989-H34-T3
 DOCUMENT TYPE: Patent
 LANGUAGE: Anmeldung in Englisch; Veroeffentlichung in Englisch
 DESIGNATED STATES: R DE; R ES; R FR; R GB; R IT; R SE
 PATENT INFO.PUB.TYPE: EPA2 EUROPAEISCHE PATENTANMELDUNG
 PATENT INFORMATION:

PATENT NO	KIND	DATE
EP 329440	A2	19890823
		19890823
APPLICATION INFO.:	EP 1989-301488	19890216
PRIORITY APPLN. INFO.:	US 1988-157565	19880219

'OFFENLEGUNGS' DATE: